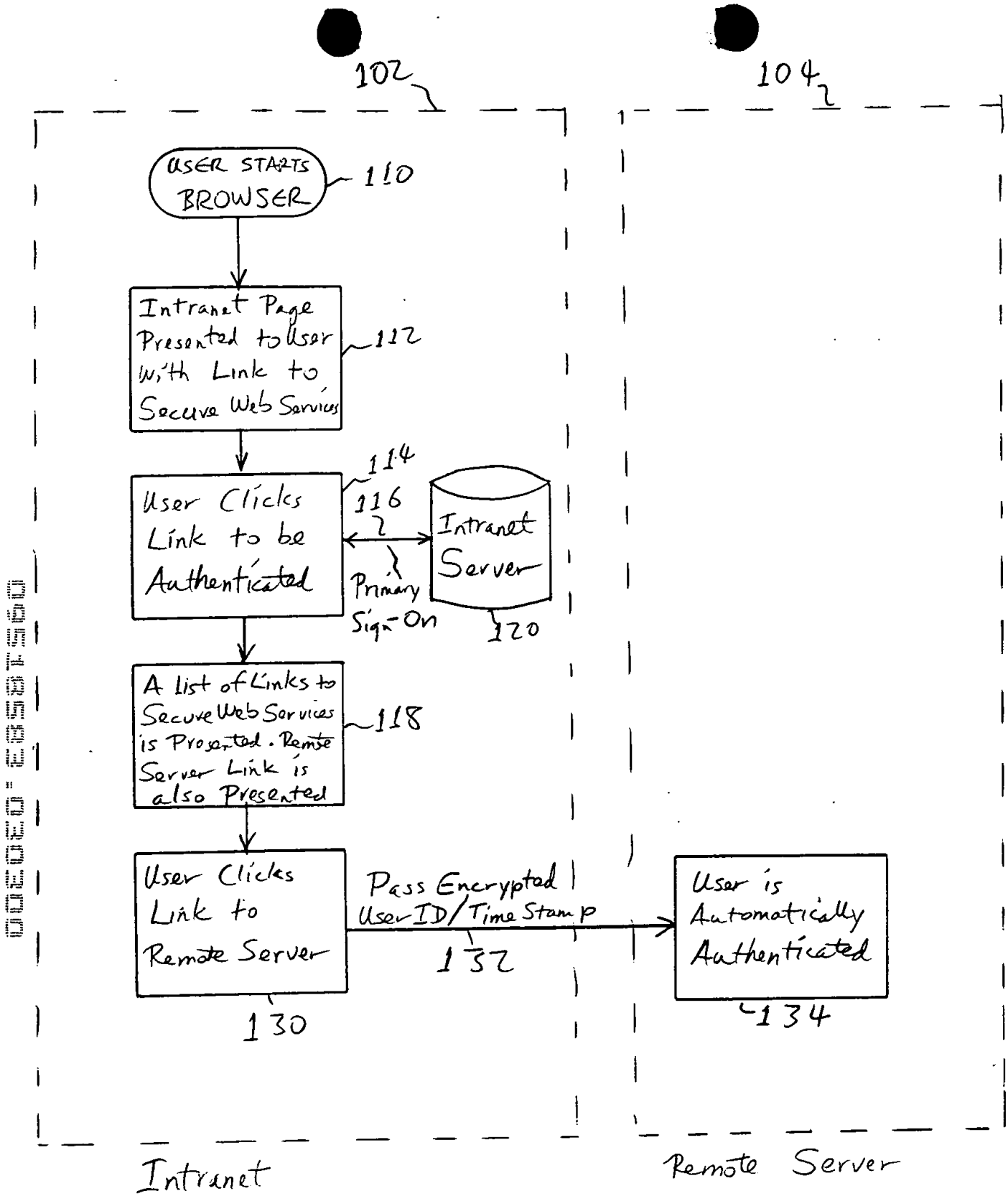
102
104
USER STARTS BROWSER
110
Intranet Page Presented to User with Link to Secure Web Services
112
User Clicks Link to be Authenticated
114
116
Primary Sign-On
Intranet Server
120
A List of Links to Secure Web Services is Presented. Remote Server Link is also Presented
118
User Clicks Link to Remote Server
130
Pass Encrypted User ID/Time Stamp
132
User is Automatically Authenticated
134
Intranet
Remote Server

FIGURE 1

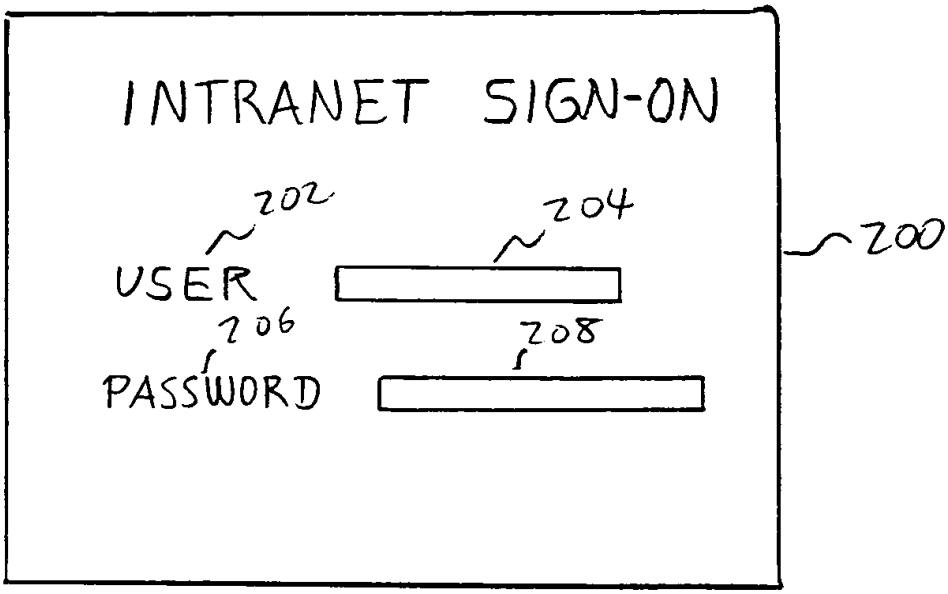

FIGURE 2A

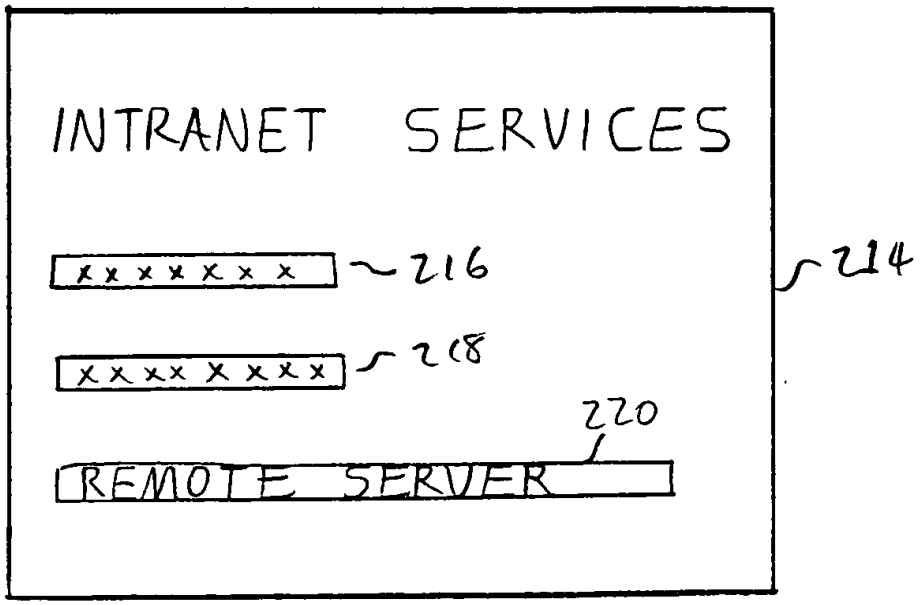

FIGURE 2B

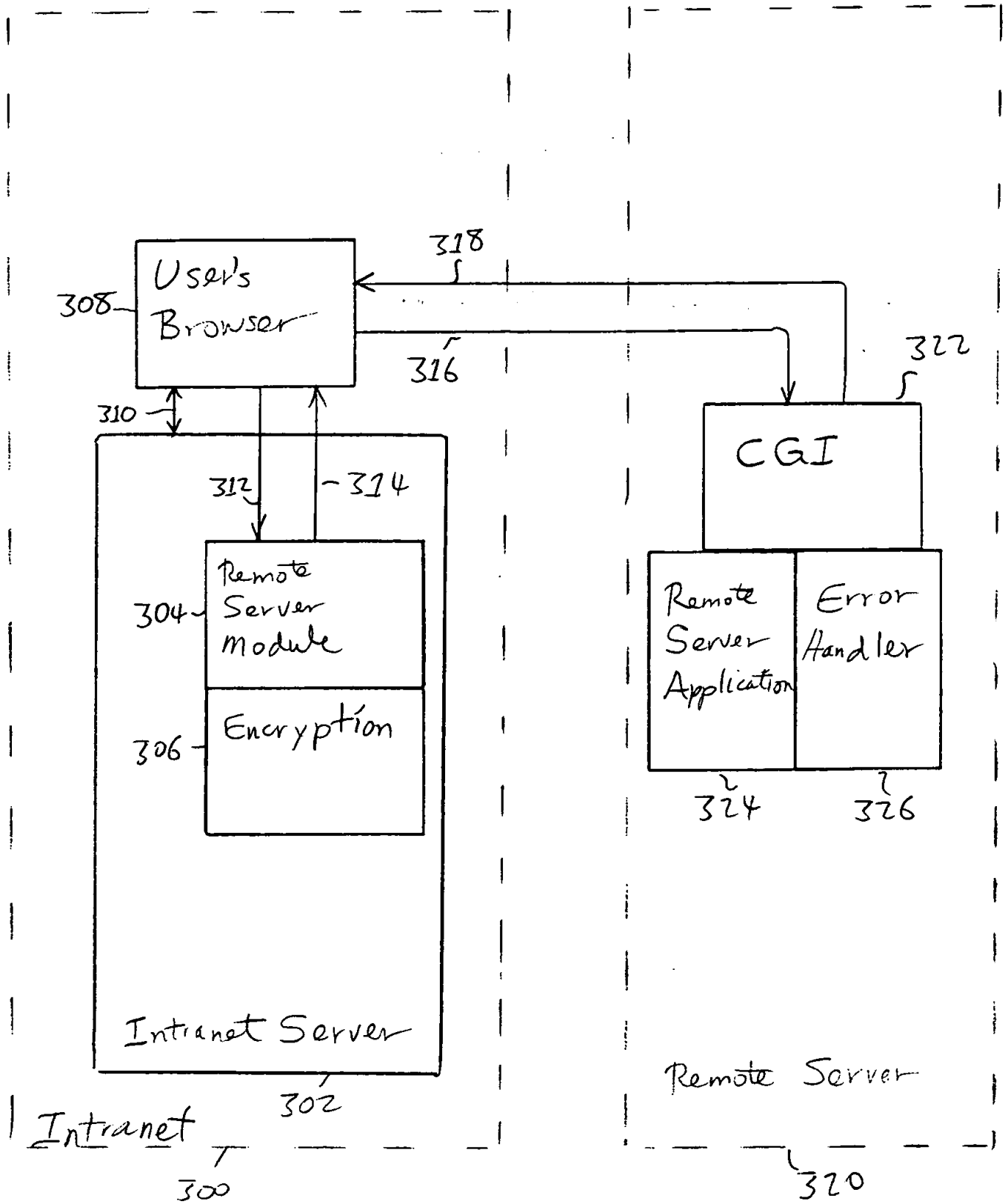
User's Browser
308
318
316
322
CGI
310
312
314
Remote Server Module
304
Encryption
306
Remote Server Application
Error Handler
324
326
Intranet Server
302
Intranet
300
Remote Server
320

FIGURE 3

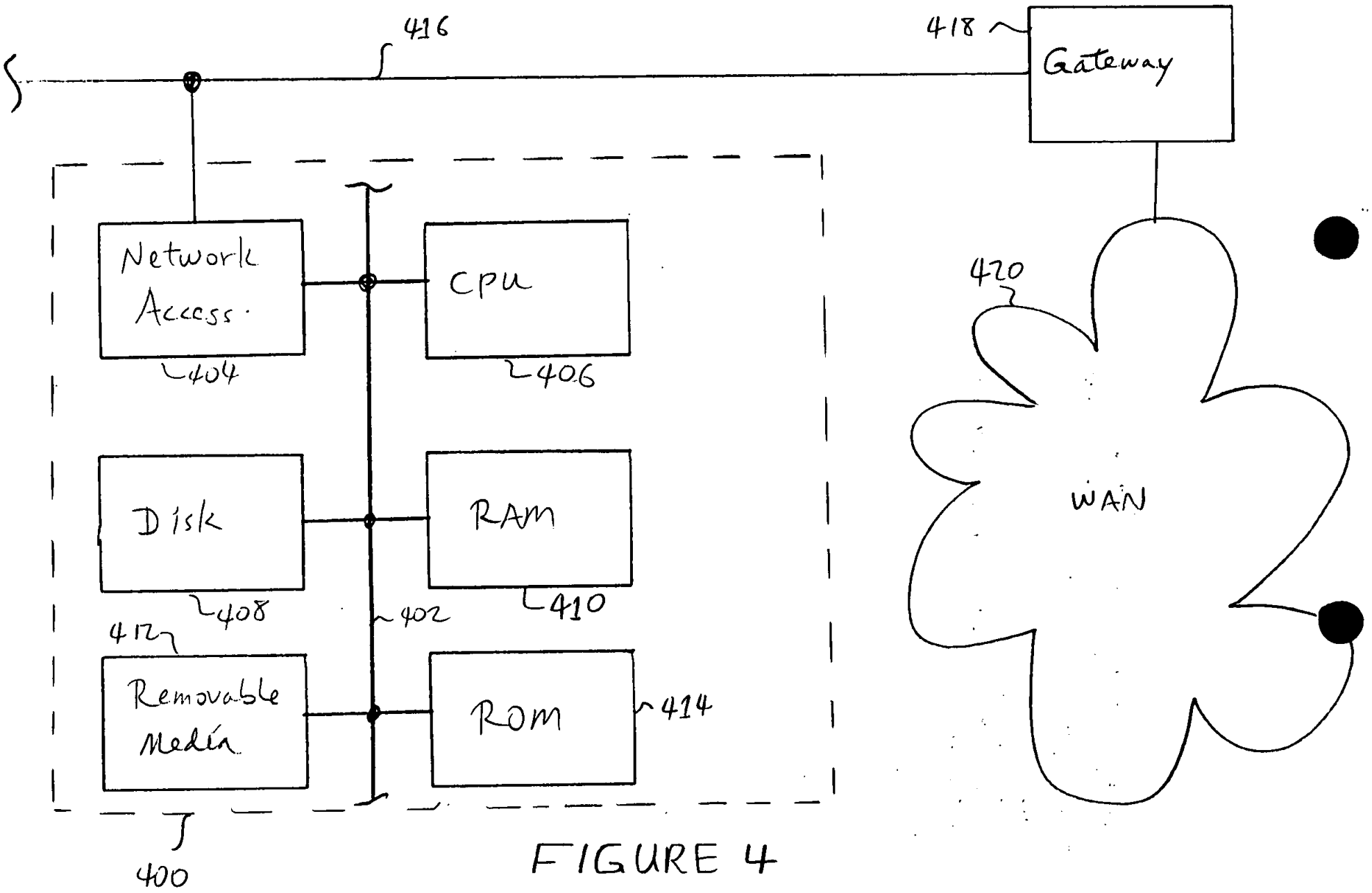
416
418
Gateway
Network Access
404
CPU
406
Disk
408
RAM
410
402
412
Removable Media
ROM
414
420
WAN
400

FIGURE 4

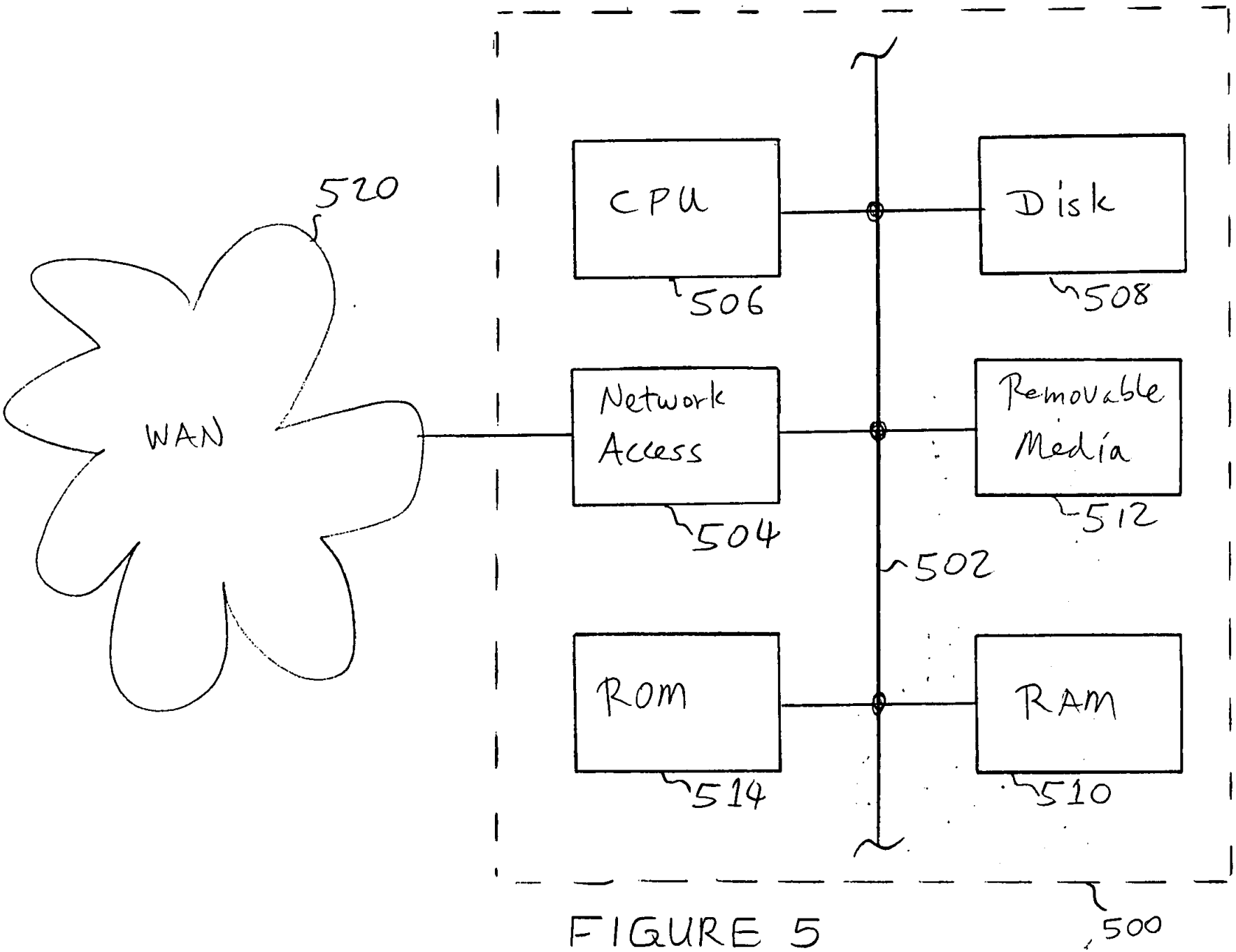
520
WAN
CPU
506
Disk
508
Network
Access
504
Removable
Media
512
502
ROM
514
RAM
510
500

FIGURE 5

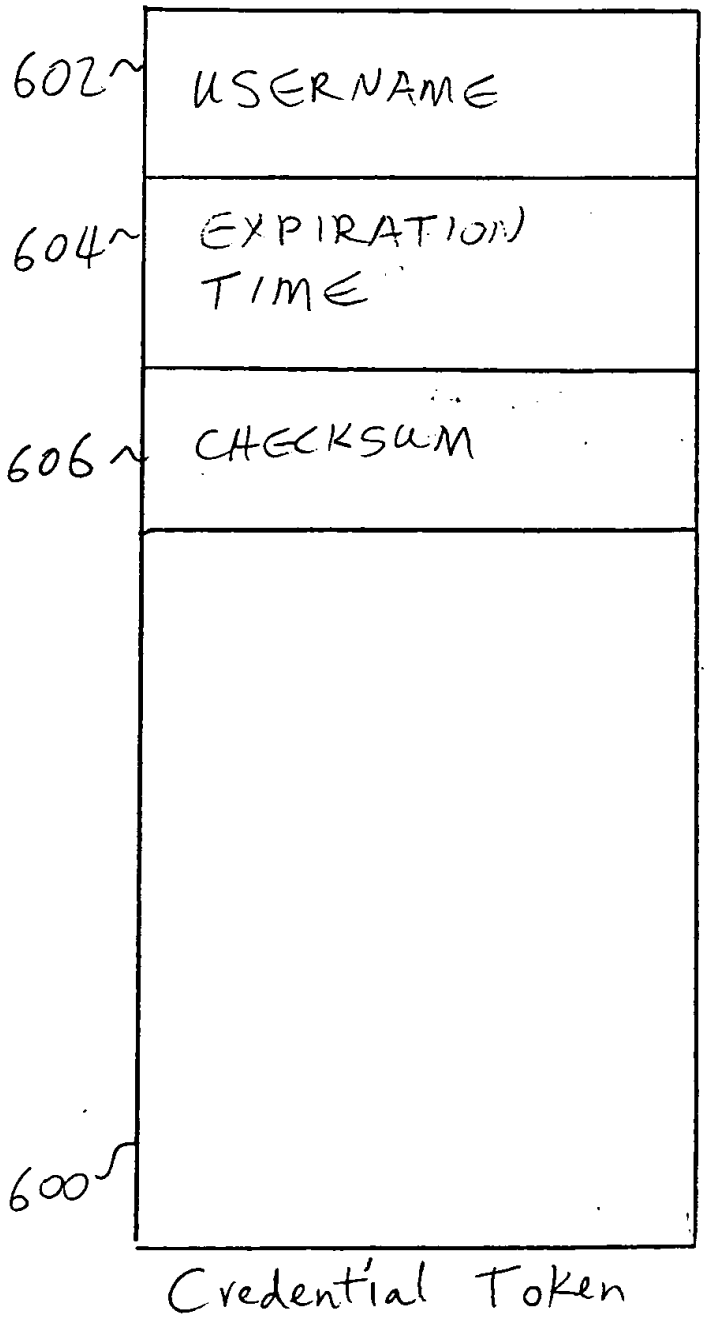
602
USERNAME
604
EXPIRATION TIME
606
CHECKSUM
600
Credential Token

FIGURE 6

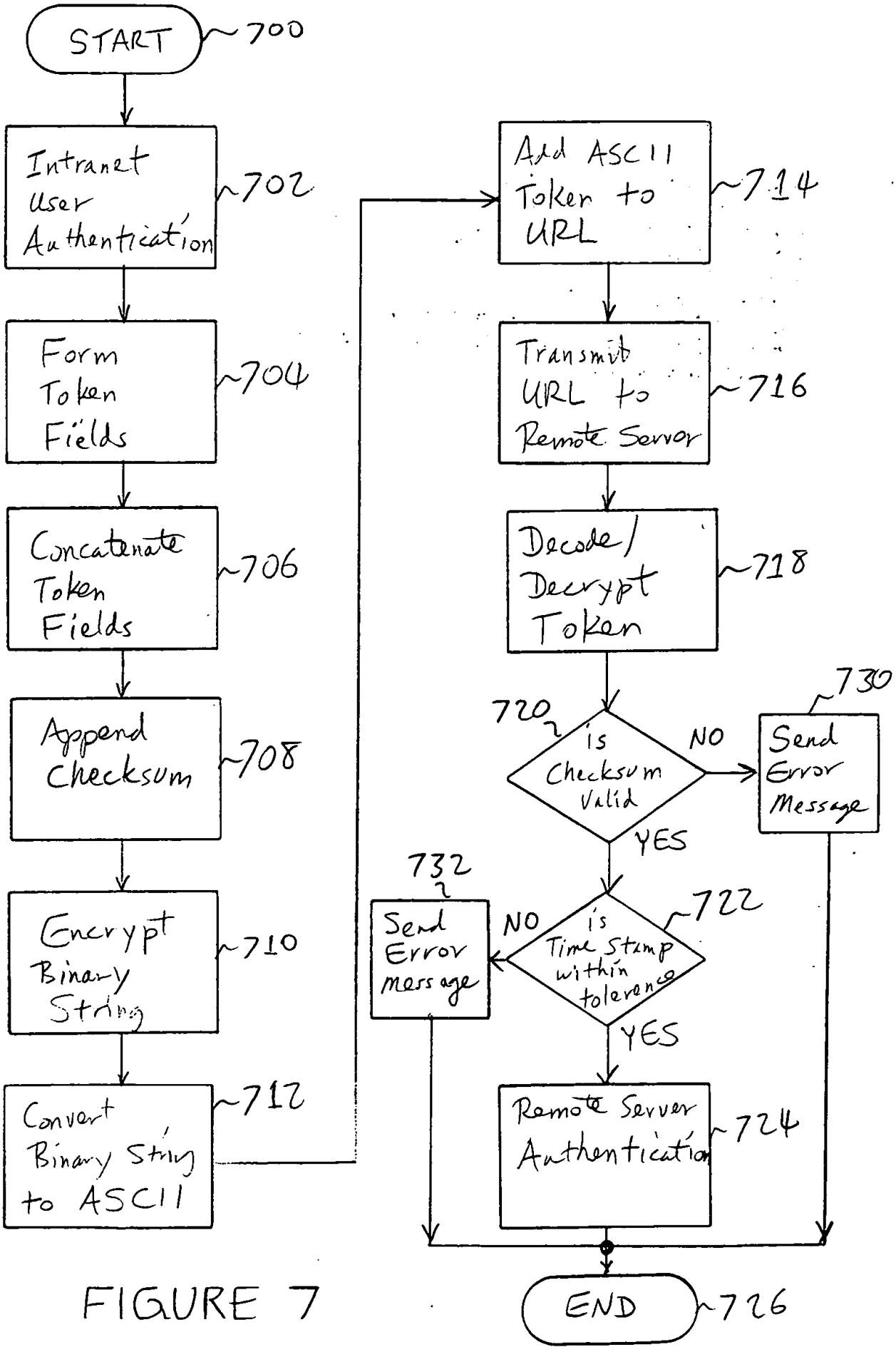
START
700
Intranet User Authentication
702
Form Token Fields
704
Concatenate Token Fields
706
Append Checksum
708
Encrypt Binary String
710
Convert Binary String to ASCII
712
Add ASCII Token to URL
714
Transmit URL to Remote Server
716
Decode/ Decrypt Token
718
720
Is Checksum Valid
NO
730
Send Error Message
YES
732
Send Error message
NO
722
Is Time Stamp within tolerance
YES
Remote Server Authentication
724
END
726

FIGURE 7

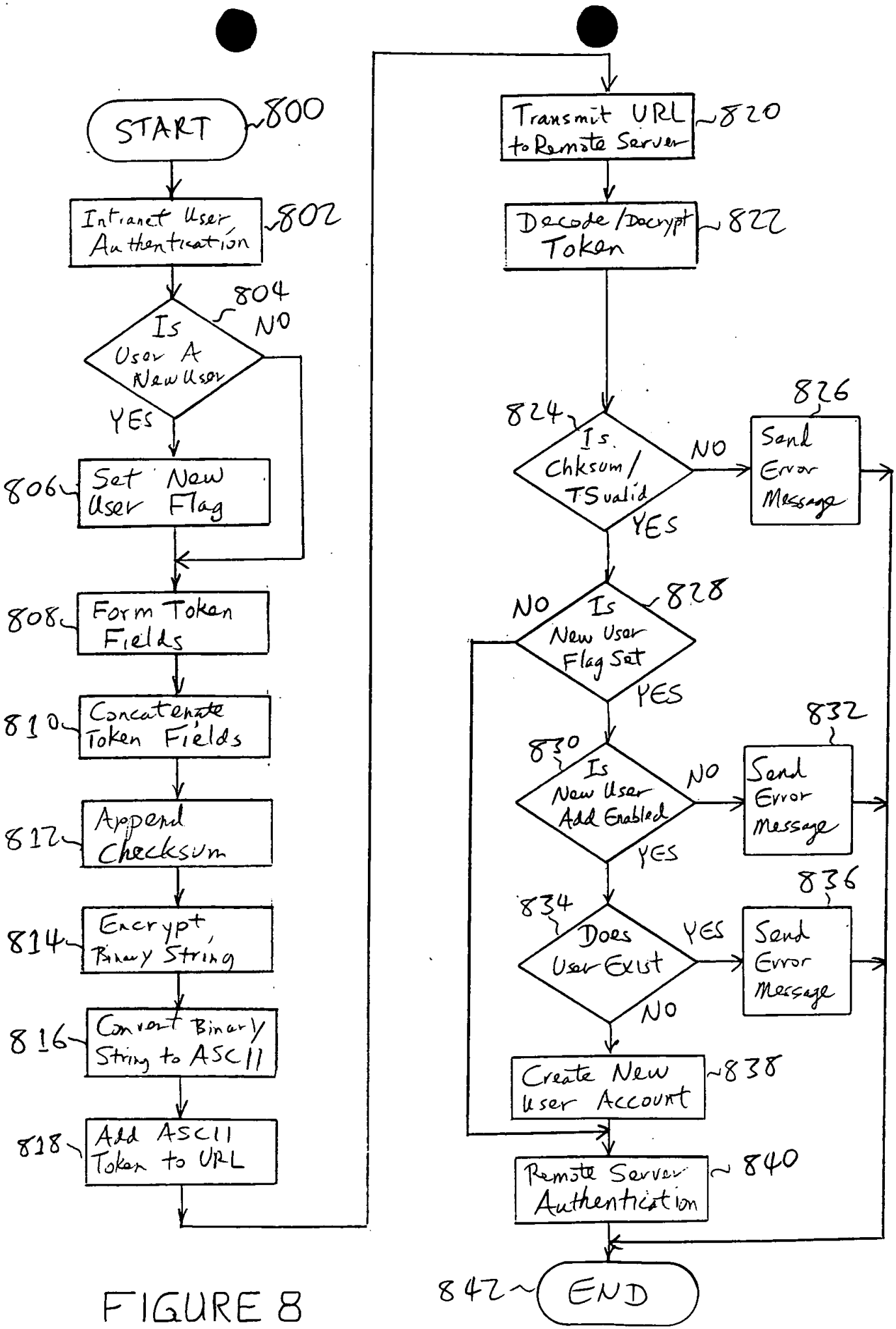
START
800
Intranet User Authentication
802
Is User A New User
804
NO
YES
Set New User Flag
806
Form Token Fields
808
Concatenate Token Fields
810
Append Checksum
812
Encrypt Binary String
814
Convert Binary String to ASCII
816
Add ASCII Token to URL
818
Transmit URL to Remote Server
820
Decode/Decrypt Token
822
Is Chksum/TS valid
824
NO
YES
Send Error Message
826
Is New User Flag Set
828
NO
YES
Is New User Add Enabled
830
NO
YES
Send Error Message
832
Does User Exist
834
YES
NO
Send Error Message
836
Create New User Account
838
Remote Server Authentication
840
END
842

FIGURE 8

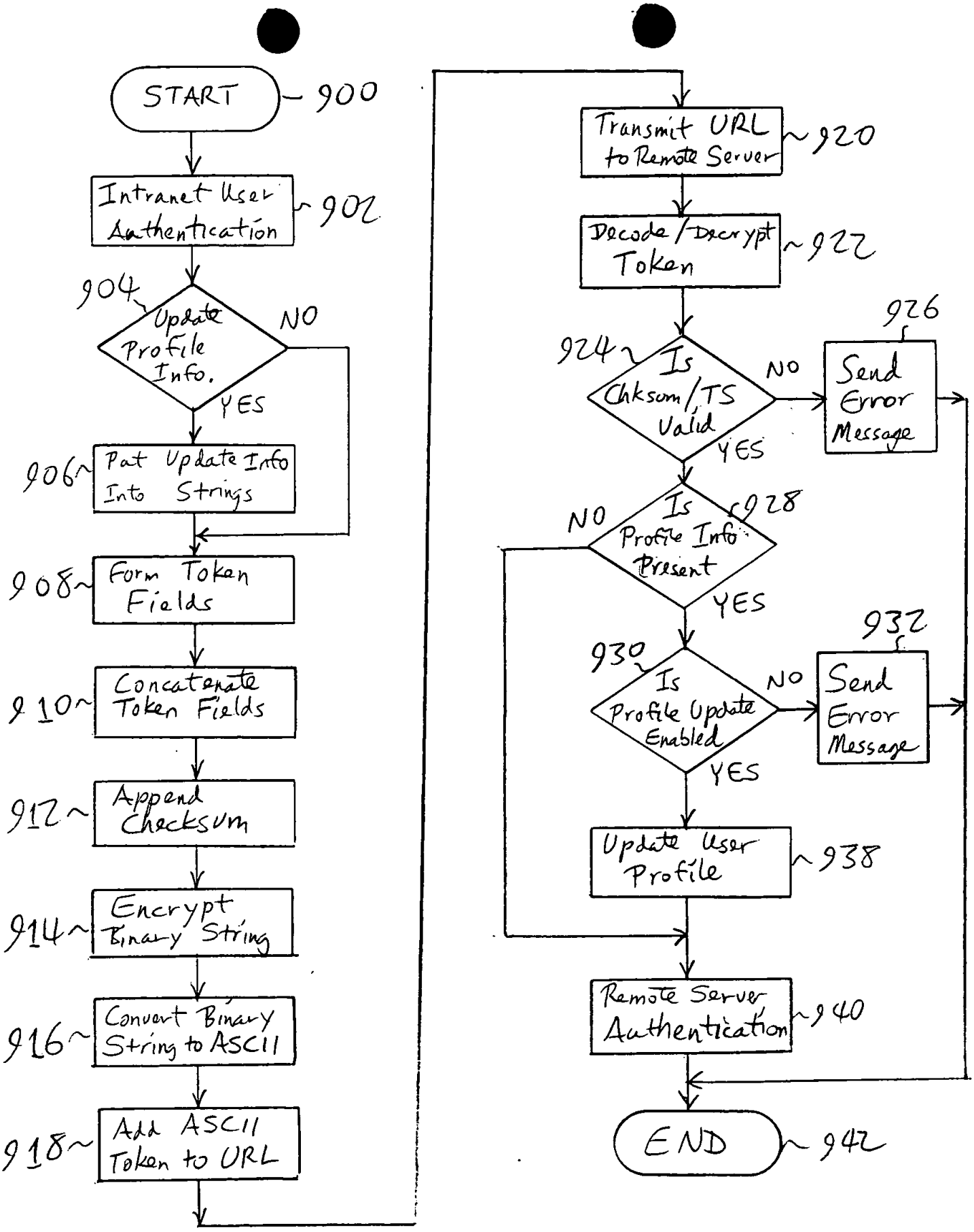
START
900
Intranet User Authentication
902
Update Profile Info.
904
NO
YES
Put Update Info Into Strings
906
Form Token Fields
908
Concatenate Token Fields
910
Append Checksum
912
Encrypt Binary String
914
Convert Binary String to ASCII
916
Add ASCII Token to URL
918
Transmit URL to Remote Server
920
Decode/Decrypt Token
922
Is Chksum/TS Valid
924
NO
YES
Send Error Message
926
Is Profile Info Present
928
NO
YES
Is Profile Update Enabled
930
NO
YES
Send Error Message
932
Update User Profile
938
Remote Server Authentication
940
END
942

FIGURE 9